

AIM Ann Report
1932 to 1933

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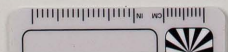
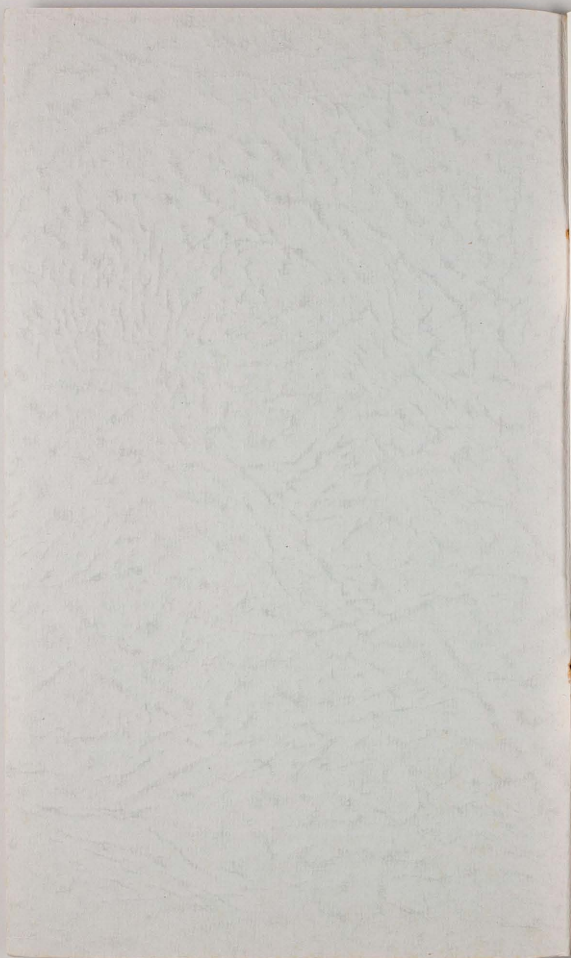
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ANNUAL REPORT
OF THE
AUCKLAND
INSTITUTE
AND MUSEUM
1932-33

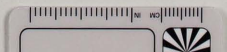


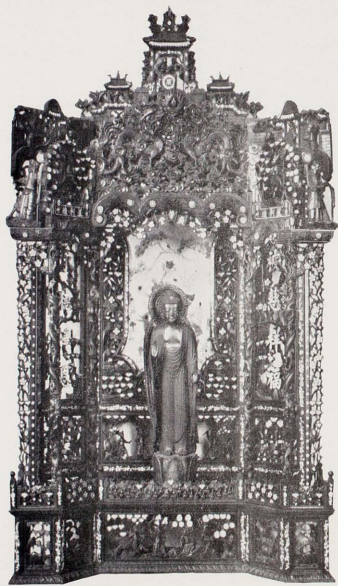
Adopted at the Annual General
Meeting held on 31st May, 1933.

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CANTONESE SHRINE.
Mr. H. S. Dadley Collection.

ANNUAL REPORT
OF THE
AUCKLAND INSTITUTE
AND MUSEUM
For 1932-33

Adopted at the Annual General
Meeting held on 31st May, 1933.



AUCKLAND
1933.

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Staff of the Museum.

Director	GILBERT ARCHIE, O.B.E., M.A., F.Z.S., F.N.Z.I.N.S.T.
Hon. Numismatist	J. C. ENTRICAN.
Hon. Curator of English China ..	C. REGINALD FORD, F.R.I.B.A.
Hon. Technical Assistant	W. K. HOUNSELL.
Assistant Director and Zoologist ..	L. T. GRIFFIN, F.Z.S.
Botanist	LUCY M. CRANWELL, M.A.
Ornithologist	R. A. FALLA, M.A.
Conchologist and Palaeontologist ..	A. W. B. POWELL.
Assistant Ethnologist	V. F. FISHER.
Honorary Assistants	NAERA MACKIE, OLWYN M. RUTHERFORD, J. E. ATT- WOOD, G. M. HODGKINS.
Librarian	M. C. CLELAND.
Bookkeeper and Typist	MURIEL PORTER.
Typist	HEATHER GRAHAM.
Recorder	DOROTHY HESSELL.
Mechanic	EDWIN LEECE.
Taxidermist	E. C. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	W. HAWKE.

Attendants:

E. PURDOM, J. L. DAVY, D.C.M., E. PIERARD, M. HOLDSWORTH,
J. STEWART.

OFFICERS
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
1932-1933

President:

PROFESSOR H. W. SEGAR, M.A., F.N.Z.INST.

Vice-Presidents:

SIR JAMES GUNSON, C.M.G., C.B.E.

MR. H. E. VAILE.

MR. A. G. LUNN.

Council:

MR. J. C. ENTRICAN.

MR. C. R. FORD, F.R.I.B.A.

THE HON. SIR GEO. FOWLDS,
C.B.E.

MR. A. H. JOHNSTONE.

SIR CECIL LEYS.

MR. F. CROSSLEY MAPPIN.

THE HON. SIR EDWIN MITCHEL-
SON, K.C.M.G., M.L.C.

THE HON. SIR JAMES PARR,
K.C.M.G.

MR. A. T. PYCROFT.

MAJOR-GEN. SIR GEO. RICH-
ARDSON, K.B.E., C.B., C.M.G.

SIR CARRICK ROBERTSON,
F.R.C.S.

PROFESSOR A. P. W. THOMAS,
M.A., F.L.S., F.N.Z.INST.

Representatives of the Auckland City Council:

HIS WORSHIP THE MAYOR, G. HUTCHISON, Esq.

MR. T. BLOODWORTH.

MR. A. J. ENTRICAN.

MR. J. B. PATERSON.

Representatives of Local Bodies:

MR. S. DONALDSON.

MR. S. W. HOUSE.

MR. J. C. RENNIE.

Trust Board:

PROFESSOR A. P. W. THOMAS,
Chairman.

MR. A. G. LUNN.

MR. O. NICHOLSON.

SIR CECIL LEYS.

MR. H. E. VAILE.

Director:

GILBERT ARCHY, O.B.E., M.A., F.Z.S., F.N.Z.INST.

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The following Periodicals and Publications of Societies

are subscribed to by the Institute:

NATURE.
DISCOVERY.
SCIENCE PROGRESS.
REPORT OF THE BRITISH ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE.
TRANSACTIONS AND PROCEEDINGS OF THE ROYAL
SOCIETY.
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES
SCIENCES.
NEW ZEALAND JOURNAL OF SCIENCE AND TECHNOLOGY.
THE MUSEUMS JOURNAL.
THE PHILOSOPHICAL MAGAZINE.
THE AMERICAN JOURNAL OF SCIENCE.
THE PHYSICAL REVIEW.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL
SOCIETY.
JOURNAL OF THE CHEMICAL SOCIETY.
ARCHIV DER PHARMAZIE.
MONATSHEFTE FUR CHEMIE.
THE INDUSTRIAL CHEMIST.
THE GEOLOGICAL MAGAZINE.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.
THE GEOGRAPHICAL JOURNAL.
ANNALS AND MAGAZINE OF NATURAL HISTORY.
ANNALS OF BOTANY.
JOURNAL OF BOTANY.
DAS PFLANZENREICH.
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL
SOCIETY.
THE ZOOLOGICAL RECORD.
PUBLICATIONS OF THE RAY SOCIETY.
THE IBIS.
MAN.
JOURNAL OF THE ROYAL ANTHROPOLOGICAL INSTITUTE.
ANTIQUITY.
JOURNAL OF EGYPTIAN ARCHAEOLOGY.
OCEANIA.
JOURNAL OF THE POLYNESIAN SOCIETY.
TE WANANGA.
ART IN NEW ZEALAND.
MIND.
THE ECONOMIC JOURNAL.
THE ECONOMIC RECORD.
JOURNAL OF THE STATISTICAL SOCIETY.
QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL
SOCIETY.
THE JOURNAL OF ECOLOGY.
MANKIND.

Reports to Members.

President.

After three years of carefully planned work and intense application by the Director and staff, the large collections of exhibits possessed by the Institute and Museum are assuming that well ordered and scientific arrangement that delights the eye and appeals to the interest of visitors and members. The continually increasing interest of the public is evidenced by the large attendance at the Museum and at the lectures provided by the Institute, the Museum attendance now exceeding 3,000 per week.

Membership.—The membership at the beginning of the year was 157 life members and 431 annual subscribers. We have lost 11 members by death and 39 by resignation and removal, while 30 new members have been elected. The present roll is 568, of whom 156 are life members.

Considering the existing conditions of trade and finance, these figures cannot be considered as unsatisfactory, and we thank those members who have assisted us in maintaining our membership by proposing the 30 new members elected. May we claim their further efforts to secure new members and thus materially assist in the maintenance and development of the Institute and Museum.

Obituary.—I refer with deep regret to the death of Mr. Moss Davis and Mr. H. S. Dadley, and, at the same time, express our grateful appreciation of the many gifts of European Arts and Maori antiquities made during the past seven years by Mr. Davis, and of Mr. Dadley's generous bequest of the greater part of his valuable collection of Oriental arts and crafts. The gifts themselves, and the examples of the giving, are alike enrichments of our city life.

We also record with regret the deaths of Captain G. McKenzie, Messrs. Alexander Fotheringham, M. A. Clark, W. J. Rainger, H. P. Cockroft, J. E. Russell, L. Arnoldson, W. Todd Smith, J. D. Williamson, F. W. Wake, and Charles Rhodes.

Council.—Eleven meetings of the Council have been held, and the same number of Finance Committee meetings, all very fully attended, the keenest interest being displayed by all members in the multitude of matters calling for attention.

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Special reference must be made to the "Moa Searching Committee," Mr. Mappin, Sir Carrick Robertson and Mr. Pycroft, who, with the Director, have done work of great value and have materially added to our research and display collections of Moa remains.

Mr. Pycroft visited Melanesia during the year and returned with many valuable specimens for our collections. Mr. C. Reginald Ford, who has been a member of the Council for seven years, has accepted the position of Hon. Curator of English China.

Finance.—Receipts during the year, at £7,791, were £211 less than last year, the chief reductions being £125 in interest and rent, and £29 in subscriptions. The expenditure, also, at £7,890, has been reduced by £345.

During the past two years our revenue has declined by £560 per annum, and unfortunately we must expect still further reductions in receipts from invested funds and members' subscriptions during the coming year. Staff salaries have been reduced and rigid economy has been exercised over all items of expenditure; and it is only by the aid of the contributions of Local Bodies that the institution can be maintained. In this connection we may be permitted to refer to the opinion expressed by Mr. Markham as to the high standard attained by the Museum, and to refer also to the fact that overseas Museums, with which he favourably compared ours, have much larger incomes. We are doubly grateful to have the assistance of the Local Bodies in these difficult times, and we trust that an increased number of citizens will give us their present support as members, and that the roll of benefactors may continue to extend.

Museum.—Additions to the displays have been made in all departments. Six special exhibitions have been held during the year and have attracted a considerable amount of public interest.

An unusually large number of gifts has been received, notably the splendid collection of Oriental arts bequeathed by the late Mr. H. S. Dadley.

The school service has been extended both by an increase in the number of circulating loan exhibits and by the delivery of special educational talks and lectures in the Museum. The Council regards this educational work as one of the most important duties of the staff, and feels sure that its value is appreciated by the community.

The customary evening meeting for the demonstration of the activities of the Museum to members of the contributing Local Bodies was held on October 11th, when renewed expressions of appreciation of the value of the educational work being carried out were given by the visitors.

Roll of Honour Committee.—The President and Sir George Richardson were appointed delegates from the Council to the above committee, which desires me to report that steps have been taken to obtain designs for stained glass windows which it is hoped to install in the Memorial Shrine. There are also in preparation two cases to contain a complete roll of honour on parchment.

The large public attendances at the Anzac Day and Armistice Day services, which are carried out with dignified ceremonial by the Returned Soldiers' Association, have been most gratifying. The presentation to schools of flags which have flown on the Cenotaph is an especially valuable part of the proceedings.

Another impressive ceremony was the unveiling of the old Colours of the 58th Regiment, which was attended by a large number of veterans and descendants of the members of the Regiment and by the 13th (North Auckland) Regiment and its associated cadet battalions.

Public Affairs.—The Council has taken an active part in the movement to preserve the Waipoua Bush as a permanent Forest Sanctuary and has joined actively in the protest against the indiscriminate liberation of opossums throughout the country.

R.R.s. "Discovery II."—We had the pleasure, during the winter, of welcoming the Royal Research Ship Discovery II, to Auckland, and I desire to express the thanks of the members of the Council and staff to Commander Carey and Mr. John and their colleagues for the very interesting demonstrations which they gave of their important work, and for the invitation extended to Messrs. Falla and Powell to accompany them on their cruise in New Zealand waters.

Staff.—The staff is small for the work that has to be done, but their willingness to assume extra duties at all times has maintained the work of the Museum at a high standard. The Council is confident that this high standard will be maintained in the enormous mass of work awaiting their time and attention.

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Future Development.—We have much pleasure in referring under the heading of "Future Development" to the visits in March and April of Mr. S. F. Markham and his colleagues, Professor A. S. Richards and Mr. W. R. B. Oliver, representatives of the Carnegie Corporation, for, while it was very gratifying to hear their high praise of what has already been done in the Museum, the visit will certainly be a stimulus to even better achievement in the future. Joint meetings of the members of the Council and of the Library and Art Gallery Committee of the City Council and representatives of the contributing Local Bodies were held during the two visits, the first meeting being addressed by Mr. Markham and Mr. Oliver, and the second by Mr. Markham and Professor Richards. Both the members of the Council and the staff desire to join with me in thanking our visitors for their stimulating addresses and for the valuable suggestions they have made for new avenues of Museum service, both in research and public education.

ALFD. G. LUNN.

Chairman, Trust Board.

Eight meetings of the Trust Board have been held to deal with the invested funds of the Institute. Debentures totalling £600 have matured and been repaid, and additions to the funds of £21 Life Members' Subscriptions and £188/11/4 Land Sales have been made; the latter sum included £180/12/6 wrongly withheld many years ago and finally handed over after continued representation by the Board. The sum of £1,161/1/5 is in hand and will be invested by the Board at an early date. It will be understood that recent legislation has considerably reduced the return from our investments.

A. P. W. THOMAS.

Director.

Institute Meetings.—Nine evening lectures were arranged during the year, and three ordinary meetings. We are much indebted to the undermentioned gentlemen for giving us a series of most instructive and interesting addresses:—

Mr. C. E. G. Tisdall—"Through Persia and Mesopotamia."

Rev. H. K. Archdall, M.A.—"English Educational Principles and Methods."

Professor H. W. Segar, M.A., F.N.Z.Inst.—"Sun and Moon: A Contrast."

Mr. R. A. Falla, M.A.—“Whales and Whaling.”

Mr. Dilwyn John, M.Sc.—“The Discovery Investigations.”

Dr. Bruce Mackenzie—“X-Rays.”

Dr. J. C. Beaglehole, M.A.—“Spanish Exploration in the Pacific.”

Hon. Sir James Parr, K.C.M.G., M.L.C.—“Economic Union of the British Empire.”

Professor Arnold Wall, M.A.—“Peoples and Plants of the High Himalayas.”

The average attendance at the evening lectures was 235. At the ordinary meetings papers were read and accounts were given of research and collecting expeditions made by members of the Museum staff.

Astronomical Section.—The membership of the Astronomical Society has increased to 35. Eight lecture meetings were held, addresses being given by Professor Burbidge and Messrs. F. H. Sagar, E. G. Jones, G. B. Bell, I. L. Thomsen, W. S. Dale, R. A. McIntosh, and L. G. Wilson.

Notwithstanding that it is still situated on an unsatisfactory site in the old Grammar School grounds, the observatory has been used by a larger number of members and their friends than usual. The past year was the tenth of the existence of the Society, and, although the section has been unable, through difficult times, to do much more than carry on, it is felt that with the gathering together of a group of working members, its activities may be considerably extended.

Anthropology and Maori Race Section.—A record financial membership of 57 indicated clearly the increasing interest in the work of this Section.

The syllabus of lectures proved very stimulating to members and their friends.

The lecturers were: Misses O. Adams, L. M. Cranwell, Captain G. Humphreys-Davies, Messrs. G. Archey, V. F. Fisher, G. Graham, W. K. Hounsell, Pei Le H. Jones, A. W. B. Powell, H. Taituha, and Cyril J. Whitmore.

A special feature was a “Demonstration of the Use of Primitive Musical Instruments,” by the Boys’ Ethnology Club. The instruments were selected from those in the Museum collection, and the demonstration was greatly appreciated by the section members.

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Owing to bad weather conditions a field day arranged had to be abandoned and the afternoon was spent studying the Museum cases illustrating Maori fishing.

The officers of the Section were: Chairman, Mr. A. Geddes; Hon. Secretary and Treasurer, Mr. V. F. Fisher; Committee, Misses L. M. Cranwell, Z. O. Lloyd, Messrs. R. A. Falla, G. Graham and A. T. Pycroft; Hon. Auditor, Mr. J. G. Restell.

Additions to the Collections.—A noteworthy accession received during the year was the extensive collection of Japanese and Chinese Arts bequeathed by the late Mr. H. S. Dadley. Mr. Dadley's collection had long been on exhibition in the Museum, and it is very gratifying to know that it is now included in the permanent collection of which it forms a most attractive and instructive section.

Natural history specimens and collections received during the year are referred to in the reports of the departments concerned.

In the ethnographical section special reference is due to the collection of Melanesian articles presented by Captain H. W. Burgess, and also to the extensive Melanesian collection made by Mr. A. T. Pycroft on his recent tour. Mr. W. J. Rainger presented two greenstone *tiki* and pendants, and also some particularly fine gold crystal specimens, and Mrs. A. A. Edger has presented a large handsome carved *pare*, or door lintel.

Thanks are due also to Mr. George Graham, Mr. George Leaity, Mrs. H. E. and Mr. H. C. Maude, and Mr. Cyrus Cannon, for welcome additions to our ethnographical collections.

The Most Rev. Archbishop Averill has deposited the handsome silver gilt christening plate presented to Albert Victor Pomare by Queen Victoria. Albert Victor Pomare was the first Maori child born in England, and the Queen took much interest in him and acted as Godmother at his baptism.

Just before the death of our kindly benefactor, Mr. Moss Davis, a series of valuable gifts was received from him. They include a considerable number of rare early English gold and silver coins, Maori ornaments and weapons, and fine examples of European Arts.

The Hon. Sir James Parr presented a collection of keys, trowels and other souvenirs of civic events during the past 25 years, together with a case for their exhibition.

The Egyptian section has received a fine collection of Predynastic articles presented by Mr. Guy Brunton, and specimens of European Arts have been presented by Mrs. H. C. Mellsop, Miss Keesing, Miss Wylde Browne, Mrs. Francis Clarke and Captain G. Humphreys-Davies.

Additions to the War Collection have been made by Mrs. J. P. Campbell, who has presented one of the late Sapper Moore-Jones' pictures; by Major-General Sir Geo. Richardson, Captain W. J. Hicks, and Messrs. J. A. Hornblow, C. J. O'Keeffe and T. F. Grey.

Special Exhibitions.—Six special exhibitions were arranged, the major exhibition being that of Chinese and Japanese Art, which was held in July. Contributors were Miss A. Vera Hay, Mr. H. S. Dudley, Captain G. Humphreys-Davies, Mr. D. Fergusson, Mr. H. E. Vaile and Mr. W. Mincher, and we have also to thank Captain Davies for contributing a considerable section of the special Guide, and Captain Davies and Mr. Dudley for delivering lectures during the exhibition.

The Botanical Department held two special exhibitions, the first of paintings of native flowers, and the second of native spring flowers.

The Ornithology Department arranged an exhibition of New Zealand bird paintings in January, and a temporary migratory birds exhibition was set up in the spring.

In September the Auckland Philatelic Society kindly arranged a most interesting exhibition of postage stamps illustrating natural history, native races, historical events, architecture and transport.

Visitors.—The attendance of the public has been 157,884 during the year, a weekly average of 3,036. Corresponding figures for last year were 148,501 and 2,856.

Sunday Afternoon Lectures and Demonstrations.—Appreciation of Sunday afternoon lectures was so definitely expressed that Miss Cranwell arranged three instead of two series during the past year, one series being concerned with Springtime natural history and another associated with the special exhibition.

Mr. Patrick Smyth—"The Waitangi Treaty."

Mr. Gilbert Archey, M.A.—"The First Civilisations."

Mr. V. F. Fisher—"The Maori Canoe."

Mr. R. O. Gross, A.R.B.S.—"The Sculptor at Work."

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- Mr. H. S. Dadley—"Japanese Tsuba, or Sword Guards."
Captain G. Humphreys-Davies—"Chinese Pottery and Porcelain."
Captain G. Humphreys-Davies—"Chinese Porcelain: Its History and Development."
Mr. R. A. Falla, M.A.—"Spring Birds."
Miss M. Crookes, M.A.—"Spring Orchids."
Mr. J. B. Nevill—"N.Z. Moths and Butterflies."
Mr. A. W. B. Powell—"Local Shellfish."
Rev. Angus MacDonald, O.B.E.—"Tutankhamen and His Tomb."

Maori plaiting and weaving exhibitions have also been arranged during public holidays.

Enquiries and demands for lectures by members of the staff have again increased. Over three thousand enquiries were answered, and seventy-seven lectures were given by Miss Cranwell (14), Mr. Falla (30), Mr. Fisher (16), Mr. Powell (4), and the Director (13).

Publications.—Eleven papers have been completed by members of the staff during the year, of which the undermentioned appeared in the third number of Volume 1 of the "Records," which appeared in September. The remainder have been published in the Transactions of the N.Z. Institute and in overseas Journals.

- "A Revision of the Carangid and Seriolid Fishes of New Zealand."
—L. T. Griffin.
"Notes on a New Collembola from New Zealand."—E. D. Pritchard.
"New Zealand Cormorants in the Collection of the Auckland Museum, with Notes on Field Observations."—R. A. Falla.
"The Paryphantidae of New Zealand. Descriptions of further New Species."—A. W. B. Powell.
"Maori Decorated Sinkers."—V. F. Fisher.

The Waitemata Harbour Survey Committee has continued to collect specimens and relative data, and special expeditions were made in R.R.s. "Discovery II." by Mr. Powell and Mr. Falla in acceptance of a kind invitation extended to them by Captain Carey and Mr. John. Mr. Powell also made a collecting trip to the Chatham Islands.

General.—The Hon. Numismatist, Mr. J. C. Entrican, has prepared a most interesting collection of British silver coins from Roman to the present time, and, in order to make the series complete, has added many fine specimens from his own collection.

It would require a considerable list to record the valuable assistance which Mr. W. K. Hounsell, Hon. Technical Assistant, has given throughout the year to all departments, but special mention should be made of the care and skill which he applied so successfully to the preservation of the old Colours of the 58th Regiment, of the historical details he collected, and of the fine temporary exhibition set up in connection with the ceremony of unveiling the Colours. Mr. Hounsell has also arranged new displays in the War Trophy Hall.

Extensive additions to the Museum display have been made during the year. Mr. Griffin has completely rearranged the Mackelvie collection and the European Arts section. Many fine wood carvings have been displayed on the walls of the Maori Court, and a special introductory case, interpreting Maori carving patterns, has been arranged at the entrance to the Maori Court.

A case containing the kudu and the wildebeeste presented by the Zoological Gardens has been set up by the taxidermist, Mr. Dover, who has also presented and mounted in a habitat case a fine pair of introduced deer. Another group completed is that of the Wandering Albatross.

The general labelling of the Maori section has been completed and considerable progress has been made with the Melanesian collection, and many hundreds of geological specimens have been set out and labelled.

It has only been possible to complete so great an amount of work through the earnest activity of all members of the staff, professional, technical and clerical, who are always ready to help in each others' departments as well as to develop their own, and by the willing service of the attendants.

GILBERT ARCHEY.

Assistant Director.

Numerous additions have been made to the collection of fishes during the year, among the special display preparations being painted casts of a world's record Mako Shark, very large specimens of ling and trevally, and two rare marine eels, also an exhibit, with explanatory drawings, of the eggs of the Elephant Fish. The

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reference collection of fishes has been maintained in good order and 148 new specimens were identified.

Papers entitled "Revision of the Carangid and Seriolid Fishes of New Zealand," and "A New Genus and Three New Species of Marine Fishes" were published, and a paper describing a new species of *Acanthoclinus* is in the press.

Much time has been occupied with cataloguing, cleaning and re-displaying the specimens of the Mackelvie Collection, and these are now exhibited in ten cases, all of which have been arranged during the year. To conform with the new display of the Mackelvie Collection necessary rearrangements were made in four cases in the European Arts section, and a considerable amount of work, involving much rearrangement, was also undertaken in connection with the special exhibition of Oriental Art.

Six other cases were prepared: The Mrs. Alma Baker Collection of Malayan Silver Ornaments, Sir James Parr's Collection of presentation gold and silver keys, trowels, etc., the Dr. Bucknill glass collection, Greek and Roman glass and bronze, and the Oriental jade Collection.

The Moss Davis Collection of curios and gold and silver coins was catalogued and a number of the articles placed on exhibition.

Routine duties have included the recording of 508 double accession entries, 778 labels and index cards for fishes and other exhibits, and 347 enquiries.

L. T. GRIFFIN.

Education and School Service.

The School Service of the Museum has been maintained as in previous years, and extended in several directions.

Loan Cases.—Thirty cases are now in circulation to 42 schools within a seven-mile radius of the Chief Post Office. The services of the carrier are now provided by the Education Board once a month, instead of fortnightly, as previously. While no extension of the regular round has been possible, two outer suburban groups, with Birkenhead and Papatoetoe as centres, have made their own arrangements for transport. Twenty rural schools, at distances up to 150 miles, have borrowed specially packed specimen boxes, and requests for cases and loan specimens are growing in number.

Slides and Films.—A dozen sets of natural history and ethnological lantern slides, and two natural history films (16 millimetre) are now available to schools having the necessary facilities.

Boys' and Girls' Clubs.—These have now a total membership of 60, and their activities are described in the departmental reports.

Blind Institute.—Nature study classes have been conducted weekly during the school year by three members of the staff for children from the Institute school. There are 24 pupils, and classes are graded for junior and senior on alternate weeks. All specimens described are handled by the children, and short outdoor excursions have been made at suitable times.

School Visits.—In connection with the visits of town and country classes, and of student groups, there has lately been adopted a plan of providing such classes with sets of definite questions, which may be answered by the examination of Museum exhibits. These have proved successful and it is intended to organise and extend this plan in the coming year.

Other forms of school service have been :—

- (a) Identification of Specimens.
- (b) Advice on School Museums.
- (c) The Cheeseman Memorial Essay Competition.
- (d) A children's exhibit in connection with the Annual Exhibition of Native Flowers.

R. A. FALLA.

Botanist.

The balance of the collections has been greatly improved during the year through accessions of the lower plants, Professor W. A. Setchell (California), Marshall A. Howe (New York), and H. Skuja (Riga) being especially generous with specimens, literature and identifications of Algae. Collections of marine algae were presented by Miss Walker (Norfolk Island) and Mr. A. H. Pickmere (Fiji). Nearer home, sets of seaweeds and flowering plants were received from Mr. R. M. Laing and Mr. J. E. Attwood. Personal collecting in the Tararuas, at East Cape and on the Volcanic Plateau added valuable material for research, exchange and display. Thanks are due to Miss L. B. Moore, Mr. Norman Potts and Mr. V. D. Zotov for joining in some of these holiday trips.

Good progress has been made towards mounting the Cheeseman Herbarium. We regret the departure of a most willing helper, Master James Thorley, who worked steadily at this for several months.

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Display work, apart from the preparation of frames showing (1) Ragwort; (2) Canterbury Shingle-Mountain plants; (3) a Linnaeus exhibit; and (4) the use of *Spartina* for reclamation of mud-flats, and 170 descriptive labels added to the gallery cases, has been mainly of a temporary nature. Two major exhibitions were organised (a) an exhibition of paintings of native flowers, held for three weeks from June 3rd; and (b) the first of the "Cheeseman Memorial" Native Spring Flower Shows, held from October 9th-14th. A pleasing feature of the latter was the interest shown by school children. Two special tables of flowers were arranged, one by the Takapuna Grammar School and one by the Girls' Botany Club. Thirty-five schools sent in for named bundles of flowers at the end of the exhibition. A smaller exhibit of South Island alpenes, arranged in November through the kindness of Dr. H. H. Allan, was followed in January by a representative collection of Taranaki flowers collected by Mr. J. E. Attwood. Throughout the year the Native Plant Table was kept freshly supplied and labelled, while during the cooler months bowls of Kawakawa, the Maori symbol of mourning, were kept in the Memorial Hall.

A school case, showing the life-history and uses of Puriri, was prepared, and others showing the uses of New Zealand plants, will be finished when time permits.

With the support of the Rangitoto Domain Board, a fairly successful effort was made to control such dangerous aliens as ragwort, eupatorium, blackberry, and tutsan. Two frames of these weeds were put on view on the island and a census of exotic plants prepared. An unsuccessful appeal was made to keep Rangitoto free of garden plants, the true source of danger there.

Field work on local fresh-water and marine algae was continued, and a paper on the algal associations of the West Coast near Auckland is in preparation. A second paper on vivipary in *Phormium Colensoi* is being prepared with the assistance of Dr. H. H. Allan.

Enquiries reached the average of 63 a month. Some absorbed little time or trouble, others involved both. The satisfaction of the demand for identifications and lectures tends to cripple the progress of other work.

L. M. CRANWELL.

Ornithologist.

Additions to the bird collections during the year total 274 specimens, including 30 nests and 27 eggs. Amongst these are included valuable collections made by Mr. A. T. Pycroft in Melanesia and at the Cavalli Islands. Specimens from southern New Zealand, presented by Mr. E. F. Stead, have included several species new to the collection, and Museum collecting during the year, under permit from the Hon. Minister for Internal Affairs, has added material much needed to fill gaps in the display and reference collections.

Collections of vertebrates other than birds include spirit specimens from Melanesia obtained by Mr. Pycroft, various foreign reptiles and two skeletons of small whales. New Zealand lizards presented alive are kept in vivaria, which now contain 21 specimens of four species. Collections of butterflies from Solomon Islands (Mr. Pycroft) and New Guinea (Rev. A. H. Voyce) have greatly strengthened the Melanesian section of the insect collection.

A new habitat group, illustrating the courtship and nuptial display of the Wandering Albatross, has now been placed centrally in the New Zealand Bird Hall. Additions and rearrangement of the native birds include groupings to illustrate life histories, material to illustrate feeding habits, and a section illustrating bird migration in New Zealand.

A special exhibition of the water colour drawings of native birds, prepared by Miss L. A. Daff for the N.Z. Native Bird Protection Society, was held in December and was attended by a large number of visitors.

In addition to lectures, special classes have been held as follows:

Blind Institute—16.

Technical College Agriculture pupils (for Entomology)—16.

Forty-eight lantern slides and two 16 millimetre cinema pictures have been made during the year.

Work on the reference collection of insects has been continued by Messrs. C. E. Clarke and E. Nevill, who give valuable attention also to the preservation of the specimens, and assist with identifications. The reference collection of birds has been strengthened, particularly in Pacific Island birds and New Zealand sea-birds. Valuable reference series of many rare species are now available for study, and several types are included.

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**WHAT IS?
A SHELLFISH!**

A SHELLFISH IS A SOFT-BODIED ANIMAL USUALLY WITH AN EXTERNAL SHELL.

SHELLFISH DIFFER FROM WORMS, CRABS AND SIMILAR BACKBONELESS CREATURES IN THAT THE BODY IS NOT JOINTED, NOR IS IT FORMED IN SEGMENTS.

A BETTER TERM IS
MOLLUSC

MEANING SOFT-BODIED AS MANY SHELLFISH LIKE THE OCTOPUS AND THE SLUG NO LONGER SECRETE A SHELL.

**THE SHELL OF
AMOLLUSC**

IS COMPOSED OF CARBONATE OF LIME IN THE FORM OF CALCITE OR ARAGONITE, OFTEN WITH THE ADMIXTURE OF A HORNY SUBSTANCE TERMED "CONCHYOLIN".

THE SHELL IS SECRETED BY A LOOSE FLAP-LIKE PART OF THE SKIN WHICH IS TERMED THE "MANTLE".

THE MOLLUSC IS ABLE TO EXTRACT FROM ITS FOOD THE LIME REQUIRED FOR MAKING THE SHELL.

THERE ARE FIVE CLASSES OF MOLLUSCS

1 2 3 4 5

CLASS ONE PELECYPODA
BIVALVES

CLASS TWO GASTEROPODA
UNIVALVES

CLASS THREE AMPHINEURA
CHAFFOWS

CLASS FOUR SCAPHOPODA
TUBE SHELLS

CLASS FIVE CEPHALOPODA
OCTOPUS... SQUIDS

INTRODUCTORY CASE. GALLERY OF MOLLUSCA.

Research on the cormorants has been published in a paper in the Records of the Auckland Museum. The preparation of an extensive report on the birds of the Mawson Antarctic Expedition has been continued, and short reports have been prepared on special subjects for the information of the Royal Australasian Ornithologists' Union and the Auckland Acclimatisation Society.

Accommodation, specimens and critical supervision have been provided for an artist engaged in preparing 24 water colour drawings for the N.Z. Native Bird Protection Society.

Field work has been limited to three weeks in August with R.R.S. "Discovery II.," and in the Marlborough Sounds, also day trips totalling 16. Five of these were made in conjunction with Mr. R. S. Lediard, honorary photographer to the Auckland Zoological Society, for the purpose of obtaining cinema films of native birds.

Enquiries during the year total 602, about half of these relating to insect identifications.

R. A. FALLA.

Conchologist and Palaeontologist.

The collections of Recent and fossil mollusca and of marine invertebrates have been enriched by a long list of accessions, obtained by gift, exchange and personal collecting. Outstanding gifts were a large collection of Melanesian shells from Miss E. Burgess and Mrs. J. Ford-Wilson, over 1,200 specimens of Melanesian shellfish from Mr. A. T. Pycroft, a large collection of Cook Island crustacea from Mr. Drury Low, and deep water mollusca from 600-800 fathoms off the New Zealand coast from Mr. W. Foster.

Collecting trips to the Bay of Plenty, Queen Charlotte Sounds, North Canterbury and the Chatham Islands have resulted in a wealth of important material both for the Museum collections and for use as a medium of exchange. An outstanding find at the Chatham Islands was a new species of *Pachymelon*, a very rare genus, of which there was known previously only one Recent specimen.

Six new exhibits have been installed in the shell gallery, and other cases have been improved by the addition of framed explanatory panels. The new exhibits are: (1) Shellfish used by the Polynesians; (2) shellfish used by the Maoris and the Melanesians; (3) edible shellfish; (4) the distribution and life histories of shellfish; (5) disease carrying water-snails and types of gasteropod

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shellfish; and (6) introductory case, illustrating the five classes of shellfish.

In addition to outside lectures, nine classes have been conducted for the children of the Institute for the Blind, and forty class meetings and three field days for the Boys' Natural History Club. A sixth case for the School Service has been completed and is in circulation.

The reference collections of Recent and fossil mollusca have been used extensively by students, and further work has been expended upon these collections in preparing and classifying new material.

The following seven papers have been completed during the year, five of them having been published:—

"The Paryphantidae of New Zealand. Descriptions of Further New Species." *Rec. Auck. Inst. Mus.*

"The High-Tidal Mollusca of Rangitoto Island, Auckland: with Descriptions of a New Genus and Two New Species."

"Notes on the Taxonomy of the Recent Cymatiidae and Naticidae of New Zealand."

"Two New Molluscs of the Pectinidae from 600-700 fathoms, 400 miles West of New Zealand." *Trans. N.Z. Inst.*

"New Species of Subantarctic Mollusca."

"Two New Subrecent Land Snails from New Zealand."

"Seven New Species of Pelecypod Mollusca from Northern New Zealand." *Proc. Malac. Soc. London.*

In addition further progress has been made with the ecological survey of the Waitemata Harbour, and a report has been commenced upon the mollusca dredged in New Zealand waters, last year, by the Royal Research ship, "Discovery II."

About 540 enquiries have been answered, many of them by letter, and entailing the identification of specimens.

A. W. B. POWELL.

Assistant Ethnologist.

The Ethnology department has received 1,159 additions during the year. The following are of special interest:—

A collection of Melanesian ethnographical specimens, presented by Captain H. W. Burgess, a collection of Australian aboriginal

weapons from Mrs. W. D. Burrows, and a set of turtle shell discs from Mr. and Mrs. H. E. Maude.

Deposited articles of interest included the following:—

A large hei-tiki from Mr. R. Simpson, a collection of Maori fishing articles from Mr. E. C. Browne, letters and toki formerly owned by T. Solomon, the last of the Moriori, from Mr. C. E. Ford, and a collection of Maori articles from Thornton's Bay, Thames, Mr. E. Thornton.

Alterations made to exhibition cases include the following: 3 American, 7 Melanesian, 1 Polynesian, 4 Maori.

Exhibits of special interest include a deposited collection, deposited by Messrs. S. M. Hovell and R. P. Bell, of 531 Maori bone and stone specimens from Matatoki, Thames; a panel illustrating wood carving in the Pacific, and a display of New Guinea shields and masks on the wall in the South Pacific Hall. Other specimens exhibited in their respective cases totalled 132.

Labelling has been proceeded with, chiefly in the Melanesian section. Credit is due to Misses Peacock and O. M. Rutherford for the valuable assistance given in labelling.

The Ethnology Club for boys, which has a membership of 18, including a junior group, held 28 meetings and one field day. A school case showing the Maori methods employed when making a stone adze was prepared. The number of specimens borrowed by school teachers and Scout leaders amounted to 182.

The collection of lantern slides has been increased by the addition of 128 new slides, including a fine series illustrating native life in the Gilbert Islands. A catalogue of negatives is in course of preparation.

The important work of classifying the extensive reference collections has been continued. In this connection the Solomon Islands, Santa Cruz, New Hebrides, Banks Islands and New Guinea material have been stored, while considerable work has also been done on pendants and ornaments from other parts of Melanesia.

Field work was carried out at Mercury Bay, Thames, Waihi Beach, Parawai and Matatoki. At Matatoki 129 specimens were secured as the result of excavating.

The following paper was published during the year:—

“Maori Decorated Sinkers.”

Interviews and enquiries totalled 156, besides considerable correspondence.

V. F. FISHER.

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Library.

Additions to the Library by gift number 37, and 134 volumes have been purchased. Exchanges have been received from twelve additional Institutes, increasing our total exchange list to 132.

An Expenditure of £305 has been incurred on the Library during the year. A consignment of 114 volumes ordered from London has been received and catalogued, and progress has been made with the detailed classification of different sections of the Library. In addition to the purchase of books, considerable expenditure has been incurred in binding the magazines and publications subscribed to by the Institute. The high rate of exchange will naturally affect our purchases during the incoming year. It is gratifying to note the steady increase of exchanges with Foreign Societies, also the donations from private individuals.

The Library maintains its popularity with both research students and members.

MARSHALL C. CLELAND.

RECEIPTS AND PAYMENTS

During the Year Ended 31st March, 1933.

GILBERT ARCHEY, Treasurer.

INCOME AND EXPENDITURE ACCOUNT.

	£	s.	d.		£	s.	d.
To Salaries and Wages	5,222	15	3	By Subscriptions—			
.. Insurance	44	14	2	Annual	483	19	0
.. General Maintenance	521	19	2	Life Members	21	0	0
.. School Service Education and Publications	280	15	10	.. Interest: Mortgage and Debenture	1,435	19	8
.. Preserving and Display	138	14	0	.. Interest: Sundries	66	18	0
.. Institute Expenses	121	6	6	.. Rents, R.L.R.	26	1	0
.. Sundries	123	19	8	.. Sales, R.L.R.	188	11	4
.. Building Maintenance	51	7	6	.. Contributions from Local Bodies	5,700	0	0
.. Subscriptions Written Off	81	18	0	.. Sundries	88	12	7
.. Transfers—				.. Donations	127	16	7
Museum Endowment Account	188	11	4	.. Balance	548	1	8
Life Subscription Capital Account	21	0	0				
Memorial Hall Trust Fund	32	16	5				
.. Depreciation—							
Buildings	1,166	7	2				
Fixtures and Fittings	750	14	10				
	£8,686	19	10		£8,686	19	10

LIFE MEMBERS' SUBSCRIPTION CAPITAL ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance, 31/3/33—				By Balance, 1/4/32—			
Investments	2,014	0	0	Investments	2,014	0	0
Cash at Bank	21	11	5	Cash at Bank	11	5	
	2,035	11	5	.. Transfer from Income and Expenditure Account		21	0
	£2,035	11	5		£2,035	11	5

GILBERT ARCHEY, Treasurer.

MUSEUM ENDOWMENT ACCOUNT.

	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.
To Transfer to Income and Expenditure Account				26	1	0	April 1st, 1932—By Balance—						
„ Balance at 31/3/1933—							Investments	12,786	0	0			
Investments	12,186	0	0				Cash at Bank	150	18	8			
Cash at Bank	939	10	0								12,936	18	8
				13,125	10	0	March 31st, 1933—						
							By Receiver Land Revenue—						
							Rents and Interest				26	1	0
							Transfer from Income and Ex-						
							penditure Account — Land						
							Revenue Sales				188	11	4
											£13,151	11	0
											£13,151	11	0

MACKECHNIE LIBRARY BEQUEST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1933—				April 1st, 1932—			
To Receipts and Payments Account	134	7	2	By Balance			11 9 0
„ Balance	11	17	8	March 31st, 1933—			
				By Interest			134 15 10
							£146 4 10
							£146 4 10

SIR JAMES GUNSON TRUST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1933—				April 1st, 1932—			
To Balance	161	14	10	By Balance	155	12	9
				March 31st, 1933—			
				By Interest			6 2 1
							£161 14 10

MEMORIAL HALL TRUST FUND ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1933—				April 1st, 1932—			
To Balance	94	10	7	By Balance	59	7	8
				March 31st, 1933—			
				By Donations Transferred			32 16 5
				„ Interest Auckland Savings Bank			2 6 6
							£94 10 7

GILBERT ARCHIEY, Treasurer.

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The Audit Office having examined the Balance Sheet and accompanying accounts, required by law to be audited, hereby certifies them to be correct.

GILBERT ARCHEY, Treasurer.

The Auckland Institute and Museum is an educational institution which gives free service to the whole community throughout the year.

Money is urgently needed to widen its activities and increase its service to the community by the spread of knowledge among present and future citizens.

If additional help cannot be given now, a bequest would be of great value.

Form of Bequest

I give and bequeath to the Institution known as the Auckland Institute and Museum the sum of £..... free of succession or estate duty to be applicable for the general purposes of such Institution. And I declare that the receipt of the Treasurer or the proper officer for the time being of such Institution shall be a sufficient discharge for the same.

List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

MONETARY GIFTS.

- 1876 Citizens of Auckland subscribed £2,026 towards first Museum building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Citizens of Auckland subscribed £1,000 for purchase of Mair collection.
1902 Mr. E. A. Mackechnie bequeathed £2,500.
1906 Citizens of Auckland subscribed £662 for purchase of Maori carved houses.
1911 Citizens of Auckland subscribed £684 for ancient Maori carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Members of Institute subscribed £115 for pair of Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens of Auckland subscribed £698 for purchase of Maori collections.
1925 Members of Institute subscribed £100 for purchase of a Maori collection.
1926 Mr. David Goldie bequeathed £1,000.
1926 Sir James Gunson Presentation Committee presented £118 for purchase of Maori specimens.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.

SPECIMENS AND BOOKS.

- 1876 Mr. R. C. Barstow: Large collection of Maori articles.
1877 Mr. G. F. Edmonston: 564 volumes of scientific works.
1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.

- 1879-83 **Mr. J. T. MacKelvie:** 390 books and large ethnographical collection.
- 1887 **Mr. C. O. Davis:** Valuable Maori collection.
- 1901 **Mr. L. D. Nathan:** Japanese Shinto Shrine.
- 1913 **Mr. Henry Shaw:** 62 scientific books.
Mr. F. Shaw: 110 scientific books.
Hon. Sir Edwin Mitchelson: Valuable collection of Kauri Gum and Case.
- 1915 **Dr. C. E. R. Bucknill:** Collection of Old English Glass.
- 1916 **Mr. Henry Shaw:** Collection of Japanese art.
- 1917 **Miss Ruth Northcroft:** Large Maori and Polynesian Collection.
- 1919 **The Misses Yates:** Collection of Indian weapons.
- 1920 **Mr. James Dunning:** Collection of North American Mammals.
- 1921 **Mr. W. A. Aldred:** Valuable collection of Maori specimens.
Hon. J. B. Turner: Large and valuable Fijian ethnographical collection.
- 1923 **Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.:** The Cheeseman Herbarium of native and foreign plants.
- 1924 **Mr. Wm. Sutherland, I.S.O.:** Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group.
Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles.
Sir Cecil Leys: and
Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
- 1925 **Mr. F. Crossley Mappin:** Valuable Maori and South Pacific exhibits.
- 1926 **Mr. Geo. F. Webster:** Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
- 1927 **Mr. F. Crossley Mappin:** Valuable Maori carvings.
Mr. Moss Davis: Collection of valuable ethnographical specimens.
- 1928 **Sir Cecil Leys** and
Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.

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- Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
- Mrs. S. J. Lushington: Large and important collection of mollusca.
- 1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
- Mr. W. R. McGregor: New Ireland carved memorial figures.
- Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
- Rev. W. H. Webster: Large collection of N.Z. and foreign mollusca.
- Mr. C. E. Clarke: Large collection of N.Z. Insects.
- Executors Mr. W. M. Cole: Collection of Stone and Bronze Age Artefacts.
- Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
- 1930 Mr. John Kenderdine: Large collection of books and pamphlets, including many rare works relating to the early history of New Zealand.
- Mr. H. E. Vaile: Addition to the Vaile Collection of a large collection of selected Maori implements and greenstone ornaments.
- Mr. Moss Davis: Selected Maori exhibits, including an old Maori model canoe; also porcelain and ivory exhibits.
- Mr. L. J. Matthews: Two specimens of Moa eggs, one perfect and the other nearly so.
- Dr. L. Cockayne, C.M.G., F.R.S.: A large collection of N.Z. Plants.
- 1931 Sir Cecil Leys and.
- Mrs. Selwyn Upton: Valuable Maori antiquities; addition to the Dr. T. W. Leys Collection.
- Mrs. S. J. Lushington: Collection of valuable Silver and Sheffield Plate.
- Mrs. A. C. Lennard: A large collection of English porcelain.
- 1932 Mr. H. S. Dadley: Large and valuable collection of Oriental Arts.
- Mr. Moss Davis: Collections of early British Gold and Silver Coins and of European Ivory Carvings and Bronzes.
- Hon. Sir James Parr: Collection of Gold and Silver Mementoes of public events in New Zealand, together with case for their display.

GIFTS TO THE Library and Museum.

LIBRARY.

PERIODICALS.

New Zealand Parliamentary Papers and Reports: Hansard, 1932; Monthly Abstract of Statistics, 1932.
N.Z. Journal of Agriculture, 1932; Year Book, 1933.
Records of the Canterbury Museum.
Bulletins of the N.Z. Geological Survey.
Publications of the Free Library and Art Gallery, Auckland.
Dairy Research Institute, New Zealand.
Auckland Society of Arts.
Alpine Sport, Auckland.
Fisheries Bulletins, The Marine Department, N.Z.
Publications of the Auckland University College.
New Zealand Libraries Association, Christchurch.
Bulletins of the Council of Scientific and Industrial Research, Melbourne.
The Australian Zoologist.
The Royal Zoological Society of New South Wales.
Transactions and Proceedings of the Royal Society of South Australia.
Memoirs of the Queensland Museum.
Proceedings of the Royal Society of Queensland.
Records and Memoirs of the Australian Museum.
Proceedings of the Linnean Society of New South Wales.
Journal of the Royal Society of New South Wales.
Bulletins and Reports of the Technological Museum, Sydney.
The Australian Naturalist.
Anthropological Society of New South Wales.
Report of the Department of Mines, W. Australia.
Proceedings of the Linnean Society of London.
Bulletins of the Hill Museum, Surrey.
Kew Bulletin.
Quarterly Bulletins and Reports of the Leicester Museum and Art Gallery.
The Avicultural Magazine.
The Royal Society of Arts, London.
Empire Marketing Board, London.
Publications of the National Museum of Wales.
Memoirs and Proceedings of the Manchester Literary and Philosophical Society.
Publications of the Manchester Museum.
Proceedings and Reports of the Belfast Natural History and Philosophical Society.
General Guide, Royal Scottish Museum, Edinburgh.
Annals of the Natal Museum.
Annals of the South African Museum.
Bulletins and Reports of the Museum, Malta.

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Museum and Art Notes, Vancouver Scientific Association.
 Quarterly Reports of the Vancouver City Museum.
 Proceedings and Transactions of the Nova Scotia Institute of Science.
 Bulletins and Reports, Department of Mines, Canada.
 Bulletins of the Royal Museum of Archaeology, Toronto.
 Transactions of the Royal Society of Canada.
 Bulletins of the Royal Ontario Museum.
 Royal Ontario Museum of Zoology, Toronto.
 Royal Ontario Museum of Archaeology, Toronto.
 Publications of the Peabody Museum, Cambridge, U.S.A.
 Publications of the S.W. Museum, Los Angeles.
 "The Masterkey," S.W. Museum, Los Angeles.
 Natural History and Reports, American Museum of Natural History.
 The Volcano Letter: Hawaiian Volcano Observatory.
 Journal of Pan-Pacific Research Institution.
 Bulletins of the Pan-Pacific Union.
 Memoirs and Bulletins of the Bishop Museum.
 Occasional Papers, The University of Michigan.
 Vancoram Review, Vanadium Corporation of America.
 Field Museum of Natural History—Zoological, Geological, Anthropological
 and Botanical Series.
 Studies in Natural History, The University of Iowa.
 U.S. Department of Agriculture: Bulletins and Circulars.
 Annual Report and Bulletins of the U.S. Bureau of Ethnology.
 Proceedings and Bulletins of the U.S. National Museum.
 Bulletins of the South California Academy of Sciences.
 Publications Biological Survey—The University of Oklahoma.
 Proceedings of the Academy of Sciences, Philadelphia.
 Bulletins U.S. Department of Labor.
 Publications of the University Pennsylvania.
 Publications of the State College of Washington.
 Journal of the Maryland Academy of Sciences.
 Journal of the Arnold Arboretum.
 Bulletins, Museum of Comparative Zoology, Harvard.
 Bulletins, South Dakota School of Mines.
 Publications of the Carnegie Institute.
 The Roerich Museum, New York.
 Programme of Activities, The Chicago Academy of Sciences.
 National Research Council, Washington.
 American Association of Petroleum Geologists, Oklahoma.
 Annals of the Geological Institute of Mexico.
 Publications of the Charleston Museum, South Carolina.
 Peabody Museum of Archaeology.
 Annuaris Observatoris Nacional de Rio de Janeiro.
 San Diego Society of Natural History.
 Museum of Natural History, Montevideo.
 Revista de la Academia de Ciencias, Madrid.
 Bulletins la Societe Etudes Oceanienmes.
 The Botanical Gardens, Brussels.
 Annales of the Societe Royale Zoologique de Belgique.
 Memoirs Archives de l'Institut de Palaeontologie Humaine, Paris.
 The Zoological Society of France, Paris.
 The Zoological Museum, Berlin.
 Senckenbergische Bibliothek, Frankfurt, Germany.
 Museum of Natural History, Wien, Austria.
 Tijdschrift voor Entomologie, Holland.

The Adviser of Norwegian Fisheries, Bergen, Norway.
The University Library, Uppsala, Sweden.
Laboratorio Zool. Gen. and Agraria, Portici, Italy.
Societa Toscana di Scienze Naturali, Pisa, Italy.
National Museum, Budapest, Hungary.
Reports of the Danish Biological Station.
Musée D'Ethnographie du Trocadero.
Independent Biological Laboratories, Palestine.
Museum D'Histoire Naturelle du Geneve.
The Museum of Natural History, Montevideo.
Academy of Sciences U.S.S.R., Leningrad.
Publications, Warsaw Zoological Museum.
Raffles Museum, Singapore.
Publications of the Java Anthropological Laboratory.
Rjks Ethnograph Museum, Leiden, Holland.
The Emma Shearer Wood Library of Ornithology, McGill University.
Fijian Society, Suva, Fiji.
Publications of the National Geological Survey of China.
The Science Society of China, Nanking.
The Metropolitan Library, Pekin.
Bulletins and Reports, National Research Council of Japan.
Sun Yat-Sen University, Canton.
Bulletins, The National Library of Peiping, China.

REPORTS.

Queen Victoria Museum, Launceston.
The American Museum, New York.
Yorkshire Philosophical Society.
Rhodesian Museum.
National Museum of Ireland.
Otago University Museum.
Stoke on Trent.
Canterbury Museum.
Fisheries of New South Wales, 1931.
Wanganui Public Museum.
Egypt Exploration Society.
Public Library and Museum of Victoria.
Belfast Museum and Art Gallery.
Mappin Art Gallery.
Free Public Museum, Liverpool.
Dominion Laboratory.
Rhodesian Museum.
Australian Museum.
John Crerar Library.
Museum and Art Gallery, Derby.
Museum and Art Gallery, Bristol.
Norwich Castle Museum.
Colchester and Essex Museum.
City of Nottingham Museum.

BOOKS.

Transactions of the Institute of Mining, Vols. 1-43.
Jellicoe: The Grand Fleet, 1914-16:—Mr. T. F. Grey.
New Zealand Artillery, 250 sketches:—Mr. T. F. Grey.
New Zealand and the Great War:—Mr. T. F. Grey.

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Dial Sights, Sketches of the N.Z.F.A.:—Captain W. J. Hicks.
22 Vols. Miscellaneous:—Mr. Barstow.
Hooker's *Icones Plantarum*. Vol. 2, p. 3:—Sir A. W. Hill.
Hone's Popular Works. 4 vols.:—Mrs. E. E. Seymour.
Baker's Handbook of the *Amaryllideae*:—Mr. C. T. O'Keeffe.
Watson's *Deudrologia Britannica*:—Mr. C. T. O'Keeffe.
Farrell's History of British Birds. 3 vols.:—Mr. C. T. O'Keeffe.
International Review of Agriculture:—Mr. Hounsell.
Pacific Affairs:—Mr. Archey.
Professor Worley has donated a large number of books and pamphlets relating to the Great War.

MUSEUM.

Mr. F. Adamson: Leg bone of Moa, Doubtless Bay.
Mr. L. Agnew: Stone Toki, Coromandel Peninsula.
Mr. Allan: Two specimens of *Paryphanta hochstetteri*, Anatoki River, Nelson.
Mr. E. Allan: *Peripatus*, Rangitoto Island.
Dr. R. S. Allan: Collections of land and fresh-water mollusca from Southern England and the Pyrenees, and of Tertiary mollusca from the South Is.
Col. S. S. Allen: Length of coconut cordage from Tokelau Islands.
Master Hector Anderson: Pipe-fish from Mangonui.
Pvt. H. C. Andow: Stone adze and illustrations of Natural History objects.
Anonymous Donors: Fine small Scarab of Rameses II.
Two stone adzes from Waikato.
Wedgwood dish.
Kahawai fish-hook.
Crested Weed-fish from Tokomaru Bay.
Turkish cartridges and Shrapnel bullet from Gallipoli.
Mr. G. Archey: Eight Aeroplane plans of battle-fields areas in France.
Mr. J. E. Attwood: Important collection of over 800 specimens of fossil mollusca from the Wanganuiian Pliocene.
Mrs. F. Austin: Large land snail, *Bulinus oblongus* Muller, from Sorocaba, Central Brazil.
Archbishop Averill: Plaster bust of Sir Richard Owen: deposited.
Rev. Avery: Stone chisel from D'Entrecasteaux Island, and float with line and fish-hook attached, from Goodenough Island.
Auckland Acclimatisation Society: Mounted specimen of Chukor from N. India: deposited.
Mr. A. W. Babbage: Several specimens of *Galaxias fasciatus*, from Kawhia.
Mr. Osmond Bagley: Two wall plaques in Majolica ware.
Mrs. E. Bailey: Cannon ball from Ruapekapeka Pa.
Miss Baird: Yellow lizard, *Naultinus elegans*, from Panmure.
Mr. and Mrs. Ward Baker: Set of New Zealand mosses, from Bay of Is. to Otago.
Thos. Ball Collection: Nine pottery sherds and one fragment brick: Roman.
Mr. B. E. Bardwell: Collection of marine mollusca, including specimens of the two largest known gasteropod molluscs, from Broome, N. Australia.
Mr. Geo. T. Barker: Specimen of Barium (Barytes) and Rock specimen, from Fiji.
Barrington Children: Maori fishing weight from Papatoetoe.
Master Peter Bartley: *Kahu kiwi*, or feather cloak.
Mrs. Batty: Chinese Tortoise.
Master M. Baxter: Skull of dolphin.
Mrs. A. Bell: Flag of the old 4th Company, 4th Regiment, Waikato Militia.

- Professor Benham: Four specimens of *Paryphanta spedeni*, from East Dome, Southland.
- Mr. Ronald Bentley: Marine mollusca from reefs near Suva, Fiji.
- Miss Bernard: Facsimile of Capt. Hobson's Proclamations of Jan. 30th and May 23rd, 1840.
- Mr. J. J. Bishop: Cave-Weta, from Titirangi.
- Bishop of Auckland: Silver-gilt knife, fork, spoon and cup, presented by H.M. Queen Victoria to her godson Albert Victor Pomare, in 1863: deposited.
- Mrs. Arthur Black: Portrait in miniature of Mary Jane Gray. Painted by Sir Chas. Ross by command of Queen Victoria: deposited.
- Mr. R. Blackie: 1 Flax beater and 5 stone adzes from Hamilton, and one beater from Ohaupo: deposited.
- Mr. A. Blackwell: Marine crustacea, mollusca and fishes from Gt. Barrier Is.
- Mr. A. N. Bowden: Collection of Melanesian articles.
- Mr. G. H. Boswell: Collection of Badges and Buttons of British and Colonial Regiments.
- Mrs. M. Boulton: Picture of Horo-i-Rangi figure, from Rotorua.
- Mr. L. C. Brabant: Cast lead Seal, a forgery in mediaeval style, made by two impostors during building of Thames Embankment.
- Mr. Brittain: Specimen of *Remorina brachyptera* from large Marlin, Bay of Islands.
- Mr. A. E. Brookes: Nine species of land and marine mollusca from Little Barrier and Hen Islands.
- Major Allan Brooks: Specimens of migratory birds from N. Canada.
- Mr. J. Brown: Instrument used in bleeding cattle for pleuro-pneumonia in the 'Sixties and 'Seventies: Known as "Phleur."
- Mr. E. C. Browne: Spreaders, fish-hooks and other articles from Karekare: deposited.
- Miss Wylde Browne: Three pieces of old gold embroidery on silk.
- Mr. Guy Brunton: Series of Predynastic Egyptian clay pots from Matmar, Assiut.
- Mr. Malcolm Buckland: 2 *Peripatus*, Epsom.
- Sur.-Comm. R. Buddle: Rudely carved figure of bird in Limonite. Thibetan pipe with stone bowl made from a Yak's horn. Fragment of brick with cuneiform writing. Lee Enfield cartridge as used in the Indian Mutiny. Concretions from Muriwai. Collection of ethnographical articles chiefly Maori: deposited.
- Mr. Harold Buddle: Fine specimen of the Silver Eel.
- Capt. H. W. Burgess: Collection of ethnographical articles from Solomon Islands. Coral growth on cable lost from H.M.S. Ringdove, Tikopia.
- Mr. W. N. Burgess: Stone adzes, from Avondale.
- Miss E. Burgess and Mrs. Ford-Wilson: Collection of Melanesian shells and ethnographical specimens.
- Mr. F. P. Burgess: Collection of ethnographical specimens, chiefly Melanesian.
- Mr. F. C. Ballantine Burnand: Two sets of music used by the Band of the 58th Regiment in Auckland, 1850-1854.
- Mrs. W. D. Burrows: Collection of native weapons and implements from Western Australia.
- Mr. John Calaghan: Specimen of Lamprey from Waiwawa River, Coroglen.
- Mr. J. P. Campbell: Water colour painting of Gallipoli by Sapper Moore-Jones; Locket set with pearls; and document bearing President Carnot's signature.
- Mr. C. Cannon: Moriori curved pendant of limestone, and fine stone *patu*, from Chatham Islands.

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- Mr. E. N. Cannons: Two specimens of silicified wood from Miranda.
- Lieut. A. G. Carnahan: Kukri of V. Gurkas; White Ensign of Motor Launch 555, Dover Patrol; Plan of Zeebrugge Harbour, and other War Documents.
- Mr. S. Carter: Mid-Tertiary fossil molluscs from Kaeo, N. Auckland.
- Mr. W. B. Carter: Two long fish spears.
- Mr. C. A. S. Carter: Specimens of *Sirex juvenis*, from Birkenhead.
- Mr. Harry Cheeseman: Specimen of fossil mollusc, *Dentalium solidum*, from near Rangiahua.
- Mrs. Francis Clark: Silver necklace, ear-rings and bracelet of native silver made for a Nubian witch-woman from the Sudan.
- Mr. W. W. Click: Specimens of crude copper in the smelting process from Arizona and Nevada.
- Mr. A. Cobourne: Stone adzes from Port Waikato District.
- Miss A. Cocker: Old English skimming dish made in England over 70 years ago.
- Mr. J. T. Cole: Specimen of dark coloured Snapper from local waters, and specimen of an "old man" Snapper.
- Mr. T. W. Collins: Photographic enlargement of large Kauri tree in Waipoua State Forest.
- Mr. A. N. Cooper: Japanese iron vase with the "Ho Bird" in inlaid gold and silver.
- Mr. W. N. Coughlan: Fowling piece with primitive home-made bolt action, from Bay of Plenty.
- Mr. J. Cox: Skull of Maori and three fragments of other skulls, from Kopaki, King Country.
- Mr. C. J. Cox: Solomon Island ethnographical specimens.
- Crawford Mineral Co.: Specimen of Rock Limonite and jar of powdered limonite, from Whangarei District.
- Mr. J. L. Crumpe: Rock specimen, probably volcanic glass, from Long Bay, Oneroa.
- Capt. E. J. Cullen: Cast of large sea snake (*Pelamis platurus* Linn). Collection of Myriopoda, from Waikato. Wooden top *potaka* found in Maori midden at Tamahere. Obsidian pebble from pumice country at Kawhia.
- Sir Thos. Cullinan: Specimen of Kimberlite typical of the diamondiferous country around the Premier Mine, Transvaal.
- Mrs. Cuvelier: Collection of shells.
- Capt. Daniels: Black Flounder, *R. retairia*, from Kaipara River.
- Mr. J. R. Davis: Two stone adzes, rubbing stone and sinker, from Kuaotunu.
- Mrs. Ngawhira Davis: Bone needle, barb for bird spear, and other Maori articles.
- Capt. Humphreys-Davies: Gold lacquer panel with pearl inlay (Lac burgante), from Japan. Three lime boxes as used by the Battaks of Sumatra, and a steel spur from Bali, used in cock fighting.
- Miss E. Davies: Model made by French prisoners of war, England, 1805-15. Collection of N.Z. ferns.
- Mr. Moss Davis: Set of post cards of gold coins in the British Museum collection. Seven ivory pieces. Box of shells and scientific publications. Gold and silver coins and medals, and a number of ethnographical articles.
- Mr. C. A. Day: Flax beater and 12 stone adzes.
- Mr. Dean: *Remorina brachyptera*, from Mahurangi Heads.
- Master T. Deans: Nests and eggs of introduced birds.
- Mr. L. W. Deloh: Specimen of *Glaphyrina vulpicolor*, a rare gasteropod.
- Mr. Douney: Fossil from Saies.
- Mr. Drury: Collection of crustacea and mollusca of the Cook Islands.
- Mr. Duncan: Mussel with pearl blister, from Maunganui Bluff.

- Mrs. A. A. Edgar: Fine carved *pare*.
 Mrs. Catherine Enwright: Bronze and silver coins.
 Mr. G. S. Entage: Smooth-bore rifle.
 Mr. E. Fairburn: Mounted collection of New Zealand beetles.
 Mr. F. J. Ferriman: War documents and Roll of Honour of Great War.
 Mrs. M. C. Flavell: Shotgun used in the Ti Ti Bald Hill skirmish.
 Mr. C. A. Flemming: Knapping stone from Mt. Hobson, Remuera. Bird specimens and bird bones from Chatham Islands.
 Messrs. Fletcher: *Tuahu* or altar stone, from Korekore Pa, Muriwai.
 Mr. F. R. Foote: Stone on which *kokowai* was ground, Manukau Heads: deposited.
 Mr. W. G. Foote: Yellow lizard, from Hillsborough.
 Mr. C. E. Ford: *Piu piu*, obtained from the Ngati-toa people of Otaki, Wellington Province. Pliocene mollusca from Scinde Island, Napier. Stone adze from Otamatea, Kaipara. Wooden implement from Te Kauwhata. Five letters of late Tame Solomon. Stone *toki* and green-stone pendant from Chatham Islands: deposited.
 Mr. F. Foster: Many marine specimens from cables and soundings in Tasman Sea.
 Hon. Sir Geo. Fowlds: Two small tubes with calcite crystals, from Riverhead, Auckland.
 Mr. E. T. Frost: Bone of large Moa, atlas of a seal, and mandible of extinct Crow, *Palaeocorax moriorum*, from Doubtless Bay.
 Mr. F. A. Garry: Minute stone adze found in midden deposit in grounds of Mt. Roskill School.
 Mr. W. H. George: Burr from a rewa-rewa tree from Ardmore.
 Mr. A. J. Gibb: Stone adzes, stone rubber, 2 patu handles, a portion of flax beater, from Kainui, Taupiri.
 Mrs. C. H. Gillett: British balloon propaganda.
 Mr. Chas. Gilmour: Stone fish-hook shank from Raglan. *Hemerocoetes microps*, from Raglan Harbour.
 Mr. Geo. Graham: Chaplet made of sea shells from Eastern Polynesia. Fern pounder found in swamp at Waitakaruru. Plaited flax boxes used in Maori "ti" game, from Waitakaruru. Ceremonial adze, from Cook Islands. Shark-tooth sword, from Gilbert Islands. Stone found on site of old kainga at Riverhead.
 Mr. T. F. Grey: Small basin with conventional floral design in brown. Set of Australian postage stationery and set of N.Z. International Exhibition (1906-7) "stickers." Post and letter-cards of New Zealand and Dependencies. Collection of N.Z. and Australian Tokens, also British and Foreign coins. 157 pieces.
 Mr. L. T. Griffin: Forgery, representing a mediaeval plaque made during the excavating of the Thames Embankment. Large Chinese bronze coin or token.
 Mrs. A. S. Gronwall: Wedgwood basalt cream jug.
 Mr. E. M. Guest: Moriiori stone adze and flint knives, from Owenga.
 Mr. R. Gurr: Rat from Hen Island.
 Mr. T. Hall: Sandstone block carved with a cross and the name "R. Hill, 1844," on other side, from Mapiu, King Country.
 Mr. H. Hamilton: Collection of Maori, Polynesian, Melanesian and Australian ethnographical specimens. Fine stone gouge, from Southland.
 Mr. W. Hammond: Skull of Maori dog, from Oruarangi, Matatoki.
 Miss K. C. Hardcastle: Six Maori kits.
 Mr. T. D. Harty: Belgian flag picked up in Houplines, 1916. Stone adzes and fern beater.
 Mr. W. E. Haslam: Photographs and certificates of members of 58th Regiment. Sword and belt presented to Sergt. Major Haslam in 1877.

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- Mr. F. P. Haslam: Medals of the late Mr. Patrick Haslam, of the 58th Regiment.
- Mr. D. Haultain: Greenstone *pekapeka* found at Whangaroa.
- Mr. Geo. Henning: Crystalline quartz found at Henning's Speedway, Mangere.
- Mr. H. G. Hoey: Green Mexican parrot.
- Mr. P. D. Horne: Mollusca from Great Barrier Island and South Sea Island localities.
- Dr. Horton: Nest of White-eye, from St. Heliers Bay.
- Mr. J. H. Houghton: Limonite concretion from Muriwai.
- Mr. Allan Hunt: Piece of brown obsidian, from Atiamuri district.
- Mr. J. C. Henley: Marine shells from Brown's Bay, Auckland. Pied fantail.
- Capt. W. J. Hicks: Map of the Somme-Cambrai area, showing lines of advance of N.Z. Division, August-November, 1918.
- Mr. Chas. H. Holland: Five American war posters.
- Mr. J. A. Hornblow: Copy of Force Order, "The Peninsula Press," and the "Dardanelles Driveller," from Gallipoli.
- Master Hough: Moriori stone adze from Waitangi sand-dunes.
- Mr. S. M. Hovell: Number of pumice cones, stone adzes and chisels and flakes, from Waihi Beach. Human skull and two jaws, from Oruarangi Pa, Matatoki, Thames.
- Mr. A. Humphreys: Skull of Maori, from Whangarei Heads.
- Mr. Allan Hunt: Foot bones of a horse, showing osteomyelitis caused through the leg being bound with wire.
- Mr. J. H. Hutchinson: Lithographic plate of Maori feast at Remuera, in May, 1864.
- Mr. Rowland Hutchinson: Specimen of Rosy-faced Lovebird.
- Industries and Commerce Dept.: Collection of photographic enlargements and panoramic views of N.Z. scenery.
- Mr. F. M. Jervis: Skin of snowy albatross.
- Mr. Hallyburton Johnston: Large Maori gourd and an old pewter measure.
- Mrs. Johnston: Tortoise-shell comb made about 1840, in England.
- Mrs. F. A. Jones: Silhouettes and one separate photo of officers of the 58th Regiment.
- Mr. Awarua Karena: Shank for a stone fish-hook from Te Kao, North Auckland.
- Rev. Riri Kawiti: Fern root beater and three stone adzes: deposited.
- Mrs. M. Keene: Fishing line made of human hair from Sikiana Island, Solomon Islands.
- Mr. T. C. Kerry: Gold nugget. Mariner's compass in box.
- Miss Kate Keesing: Two Venetian decanters, one plate, piece Delft china, one cup and a Chinese copper kettle. Three gold brooches and rock crystal seal with head of Prince Consort. Two Island pearl-shell fish-hooks.
- Mr. A. E. Kemp: Collection of Pliocene mollusca from Cape Runaway.
- Mr. P. R. Kenderdine: Three stone *toki*, including one with spiral carving on butt, from Tiniroto, Poverty Bay.
- Mrs. J. Kenderdine: General Gordon bond and a French note issued at Khartum. Baton used by the Special Police, London, 1848. Land mollusca from the Oruru Valley, near Mangonui. Three commemorative medals. Copy of the Barnsley Chronicle.
- Mr. Kenny: Rare fossil mollusc, *Glycymeris chambersi*, from Campbell Island, and land snails, *Paryphanta hochstetteri bicolor*, from Arapawa Island.
- Mrs. R. Keesing: Buddha from a Siamese temple.

- Mr. Basil King: Pupurangi eggs, Whangaroa; silicified wood, Kawakawa; and a sinker showing commencement of hole boring, from Great Exhibition Bay.
- Dr. C. W. L. King: Propeller of an Avro aeroplane.
- Mr. L. C. King: Collection of Tertiary mollusca from Wairarapa District.
- Mr. C. Kitson: Larva of Sphinx Moth, from Devonport.
- Mrs. E. A. Knapp: Pair of duelling pistols.
- Mr. H. G. Knight: Air photograph of part of the Italian Front.
- Miss E. Lacey: Two greenstone adzes from North Auckland.
- Mr. E. B. Langford: Three specimens of *Paryphanta* snails, from Whakamarama Range, West Nelson.
- Mr. C. R. Laws: 54 specimens of fossil mollusca, from South Island Tertiary beds, and others from Recent localities.
- Mr. Geo. Leaity: Exceptionally fine narrow greenstone *toki*, greenstone carving chisel, and basalt *toki*, from Kawakawa.
- Capt. C. A. Lee: Travel permit issued in Ireland during war-time disaffection.
- Master Angus Lennan: Stone adze from Westmere, Grey Lynn.
- Mrs. Lennard: Three buttons made from the "gold lip" mother of pearl shell.
- Mr. Chas. E. Levien: Ordnance depot flag, with special note re same, from Northern France, 1917.
- Mr. W. B. Leyland: Facsimile of Nelson's last letter.
- Sir Cecil Leys: Large wooden club of the notched axe type, from Fiji.
- Dr. J. B. Liggins: Five pieces of worked bone, from Oruarangi, Matatoki.
- Mr. G. E. Lopes: Carved object in pipe-clay, possibly a *mauri*, Pumpkin Hill, Tairua.
- Mr. Drury Low: Pounder, of stalactite, from Mangaia, Cook Islands. Collection of foreign fishes, from Aitutaki, Cook Islands.
- Mr. A. G. Lunn: Vase formed and polished from a block of Cannel coal. Two cannibal forks, Fiji. One *toki*; iron head of harpoon bomb. Stone adze. Rock specimens from the "Obsidian Cliffs," Lake Rotoiti. Moa crop-stones, from Kaihu Valley. Shells in sand and coal, from Cheltenham Beach.
- Hon. Mr. Justice Luxford: *Tuiga*, or head-dress, from Samoa.
- Mr. A. M. Mackay: Aragonite found in a boulder in Waikare River.
- Mr. J. P. Mackay: Spun kauri gum.
- Mr. A. MacKinnon: Knife in sheath, from N.E. Rhodesia.
- Master Brian Mahon: Flat greenstone pendant, from Thames.
- Dr. R. H. Makgill: Indian silver filigree tree, from India: deposited.
- Mr. F. C. Mappin, Sir Carrick Robertson and Mr. Pycroft: Two collections of Moa bones from King Country, including four partial and four nearly complete skeletons.
- Mr. E. A. Marchant: Four specimens of *Paryphanta marchanti* Powell, from Ruahine Range.
- Mr. Edward Marsack: Two boxes of insects; box of British birds' eggs, and entomological apparatus.
- Mr. H. C. and Mrs. H. E. Maude: Ten turtle-shell discs used in a game called *Kabure-nako*, from Beru, Gilbert Islands.
- Mr. Mead: Two pigeons' nests.
- Mr. H. F. Meader: Commemorative medal of Queen Victoria's Diamond Jubilee.
- Mrs. H. C. Mellisop: Silver necklace of fine Indian filigree work, from India.
- Capt. De Meric: Carved coconut wood spear, from Bora Bora Island.
- Mr. R. T. Michaels: Badge and Brassard of the oversea Reception Committee, London.
- Mr. E. A. Michie: Specimen of small dragon fly.
- Mr. F. Milner: Two German owls, from Waitaki.

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- Mr. H. Tai Mitchell: Tekoteko, stone adze, from Mamaku, Rotorua.
 Miss A. Morrison: Centre dish of Rockingham Ware. Sampler, from England.
 Mrs. P. D. Morrison: Stone adze, from Pelorus Sound.
 Mrs. E. A. Morrison: Stone adze, from Pelorus Sound.
 Mrs. Mouat: Specimens of a rare gasteropod mollusc, *Buccinum colensoi* Suter, from Gisborne. Two stone adzes, from N. Auckland. Fossil mollusca, *Atamarcia crassa* of Upper Oligocene age, from Hikurangi Coal Mine.
 Mr. W. Mohring: Large carved *pa* post, from Te Aroha.
 Mr. R. MacClurg: Four stone adzes, from Te Roto, Chatham Islands.
 Capt. J. D. McComish: Four ivory nuts and three land shells, from Tahiti.
 Mr. R. McGregor: Two stone adzes, from Matatoki.
 Mr. A. H. McLean: Much addressed envelope from War Zone.
 Capt. Hector McQuarrie: Loom and woven band, from Santa Cruz; plaited bag, from Cape York.
 Mr. S. McQuiggan: Harrier hawk, from South Auckland.
 Mr. D. McVeau: Three Maori adzes, from Taranaki and Otago.
 Mr. F. A. Newton: Collection of mollusca from stomachs of blue cod from Cook Strait.
 Mr. Geoff Nevill: Skull of native dog, Muriwai.
 Mr. W. Niccol: Geological specimens from Tutamai Range, near Hokianga.
 Mr. Norman: Cone enclosed in wood, from St. Helier's Bay.
 Dr. Hilda Northcroft: Shell necklaces and headbands, from Rarotonga and Manihiki. Collection of ethnographical articles.
 Mr. A. C. O'Connor: Seven skins of N.Z. birds.
 Mr. C. J. O'Keeffe: Collection of steel engravings and portraits of distinguished scientists, soldiers and sailors. Arrow with long bone point. Small lime box.
 Mr. W. R. B. Oliver: Specimens of *Paryphanta compta* Powell, from eastern side of the Aorere Valley, West Nelson.
 Mr. A. O'Neil: Natural History specimens, from Hokianga.
 Mrs. Gordon Osborne: Set of 23 N.Z. flower paintings; deposited. Kahawai fish-hook and large canoe paddle, from New Plymouth.
 Mr. W. Paice: Weaving or netting implement.
 Sir C. J. Parr: Collection of presentation gold and silver keys, trowels, caskets, etc., and list of officers of Auckland Expeditionary Force, 1914.
 Mr. H. G. Parsons: Five specimens of an artificial stone "Lapidus," from Bristol, England.
 Mr. A. Paulson: Old title deed on parchment.
 Mr. O. Peart: Three maps of war areas in Northern France.
 Mr. Wairingiringi Pepeni: *Kete pingao*, from Bay of Islands.
 Mr. J. Perano: Two Maori stone adzes, from Arapawa Island. Parts of harpoon irons, from Tory Channel. Strip of skin from whale, encrusted with barnacles.
 Mr. W. Perks: Black-backed gull, from Castor Bay.
 Mr. Len Peterson: Very fine specimen of ling, from Manukau Bar.
 Mr. Chas. Petley: Fragment of the flag of the 58th Regiment.
 Miss M. Petterd: Crystal of halite, from Prussia.
 Mr. Pheney: Small stone *toki*, from Puhoi.
 Mrs. Pickering: Two military water bottles.
 Mr. A. H. Pickmere: Collections of echinoderms, crustacea and mollusca, from Fiji.
 Mr. W. Pinches: Specimens of raw materials made from *Phormium tenax* tow.

- Miss Helener Possenniskie: Elaborately carved coconut with floral design, from South Sea Islands.
- The Hon. the Postmaster General, Wellington: Complete set of present and former issues of N.Z. postage stamps.
- Mr. S. D. Potter: Australian finches' eggs, one parrot finch, two budgerigar, five zebra finch, six gouldian finch.
- Mr. A. W. B. Powell: Birds' eggs from Kermadec and Macquarrie Islands. Collection of Maori ethnographical specimens from Muriwai.
- Mrs. R. Peppin: Greenstone chisel from Motueka.
- Mr. A. T. Pycroft: Collections of Natural History specimens from Cavalli Islands; skeleton of common dolphin, from Little Barrier Island. Large natural history and ethnographical collections, from Melanesia and Hen and Chicken Islands.
- Mr. F. Quayle: Stone adze.
- Mr. W. J. Rainger: Eleven specimens crystalline gold, from the old Hauraki Mine, and six specimens of gold quartz from the "Foreign Hand mine," Coromandel. Two greenstone *hei-tiki*; 2 pendants; greenstone knife and greenstone *kaka poria*.
- Mrs. E. A. Raynes: Tortoise and marine shells.
- Mr. V. Rhodes: Moriiori stone adze, from Waitangi; fossil whale tooth, from peat zone at Waitangi.
- Major-General Sir Geo. Richardson: Mat, signed by the Samoan Faipules who presented it to donor, Turkish propaganda leaflet from Gallipoli.
- Mr. J. D. Richardson: Set of Natural History lantern-slides.
- Sir Carriek Robertson: Broken and re-ossified femur of Maori, and section of vertebrae fused by arthritis.
- Mr. W. La Roche: Collection of land snails from Whangarei, including a very rare species, *Murdochia bicarinata* Suter.
- Mr. Wm. Ross: Two specimens of Mexican ore, from Santa Eulila.
- Mrs. W. Ross: Mounted pair of Malau (Megapodes), from Niaafu Island.
- Miss Beverley Rumson: Collection of unusual species of mollusca, from Oneroa Beach, Waiheke Island.
- Mr. T. Russell: Obsidian core.
- Mr. Geo. Russek: Lower jaw of a sea leopard, from Coromandel.
- Mr. Rust: Specimen of *Usacaranx lutescens*, from North Auckland.
- Miss O. Rutherford: Blue penguin skin.
- Sanford's Ltd.: Albino flounder, from Thames; specimen of the pilot fish, from Hauraki Gulf.
- Master Eric Saunders: Specimen of Mantis shrimp, from Turanga Creek, near Howick.
- Mrs. E. E. Seymour: Old cheese taster.
- Mr. S. A. Shaw: Specimens of insects infesting *Rubus* spp., from Waikino.
- Mr. F. Shepherd: Young specimen of the pilot fish, from Kariotahi.
- Mr. Tom Shout: Specimens of vegetable caterpillar, from King Country.
- Mr. R. Simpson: Large *hei tiki*, from Kuaotunu: deposited.
- Mr. P. R. Skeets: Korowai cloak and greenstone pendant.
- Mr. Walter Seth-Smith: Collection of English moths and butterflies, with cabinet.
- Mr. F. Smith: Well preserved fossil shark's tooth, from Kawhia: deposited.
- Mr. A. Chomondley Smith: Greenstone *toki*, from Oneroa.
- Mr. Smythe: Pair of silver candle snuffers: deposited.
- Mrs. R. C. Smythe: Four pieces of pottery, stone cup from Jerusalem, and collection of Italian pottery.
- Mr. P. Snelgan: Stone adze, from Weymouth, and meteorite iron, from Manukau Harbour.

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- Mr. C. Southgate: Three old English clay pipes and four Maori adzes, from Port Albert, Kaipara.
- Mr. Mate Srohj, Jr.: Stout wooden spear, from Waiharara, N. Auckland.
- Mr. Andy Srohj: Wooden cultivator, from Waiharara, N. Auckland.
- Mr. J. L. Stæd: 25 specimens of mollusca, from Tonquin, Indo-China.
- Mr. E. Stead: Short-tailed bats. Collection of birds, eggs, and nests.
- Mr. Alfred Steele: Fossil tooth of a strap-toothed whale, from near Whangarei.
- Mr. W. E. Stephenson: Hand-worked oval boulder, from Paroti.
- Mr. Stichbury: War documents.
- Mr. Stretton: Portugese man-of-war, *Physalia*, from Stanley Bay.
- Mr. F. A. Stuart: Two German newspapers.
- Mr. A. Suter: Collection of bush snails, including *Rhytida dunniac*, with eggs, from Red Hill, Papakura.
- Mr. J. Thompson: Moa bones and gizzard stones, from Otatau, Waiuku. Specimen of Stargazer, from West Coast. Moa bone fragments from N. Waikato Heads.
- Mr. James Thomson: Greenstone *pekapeka*, from Kuaotunu.
- Mr. E. Thornton: Collection of Maori ethnographical specimens, from Thornton's Bay, Thames: deposited.
- Mr. J. Todd: 16 arrows, from Santa Cruz; five articles from S.S. Wairarapa; small specimen of Pyromorphite, from Broken Hill.
- Miss Trevithick: Kit of flax and kiwi feathers, from Taihape.
- Mr. John Trott: Greenstone adzes; black stone *toki*; gun-flint and concretion, from Fairburn: deposited.
- Mr. Whare Tuanui: Moriori patu and adze, from Te Roto.
- Mr. Konga Tuanui: Moriori stone adze.
- Mr. J. Tutt: Head of rabbit with deformed teeth.
- Mr. E. Earle Vaile: Paradise duck.
- Rev. A. H. Voyce: Collection of insects, from New Guinea.
- Mr. J. Waitere: Moriori stone adze, from Matakatau Point.
- Miss M. Wakelin: Collection of Lepidoptera and Hymenoptera, from Parua Bay and Papatoetoe.
- Mrs. Wakeman: Fossil from King Country. Pendant fashioned from a tooth of a whale, King Country.
- Mr. L. E. R. Wakeman: Six pieces red and black decorated pottery, from Pompeii: deposited.
- Mr. W. T. F. Walker: Hexagonal smooth-bore rifle.
- Miss Walker: Collection of seaweeds from Norfolk Island.
- Miss Fanny Warren: Bottle of native prepared tanekaha dye, from Opotiki.
- Mrs. N. Waterson: Obsidian scraper, from Taumarunui.
- Mr. A. H. Watt: Bird specimens.
- Mr. F. Watson: Four specimens of the Paper Nautilus and a large starfish, from the Rangitoto Beacon.
- Mr. Weaver: Specimen of deep-water anemone.
- Mr. W. H. Weeks: Two specimens of large land snails, from Natal.
- Mr. W. D. Weller: Large spider, from Mt. Albert.
- Mr. Thos. Wetherilt: Specimens of mollusca and ammonite, from Muscat, Arabian Sea.
- Mrs. M. Whitehead: Fossils of Carboniferous Period, from South Staffordshire, England.
- Mrs. Whitton: Human skull and jaw-bone, from Tom Bowling Bay.
- Mr. Keepa Wiki: Three stone adzes, from Te Kao and the Bluffs, North Auckland.
- Mr. Williams: Mollusca from Cook Strait buoys.

- Mr. W. Williams: Piece of jaw-bone of the native dog, from Paritutai,
Manukau Heads. Rough polishing stone, from Opito.
Mrs. F. W. Wilkins: Calcium magnesium silicate.
Mr. Geo. Wilson: Egg of *Apteryx mantelli*, from Kirikopuni.
Major R. A. Wilson: Bark specimen of tawa, from Waione.
Miss B. Wilson: Collection of marine mollusca, from Chatham Islands.
Mr. J. Wilson: Stone *toki*, from Alderman Islands.
Mr. Winstone: Slab of mudstone containing fossil mollusca.
Mr. H. Winterburn: Deformed specimen of Snake Eel from Manukau
Harbour.
Mr. S. E. Workman: Stone adze, from Mangatangi.
Mr. J. G. Wynyard: Captain's tunic of the 58th Regiment.
Mr. F. Young: Collection of mollusca, from Cape Maria Van Diemen.
Zoological Park: Specimens of Ruddy Flamingo, adult Cassowary, Wood-
ward's Red Kangaroo, Bateleur Eagle, Pelican, Red Kangaroo, sacred
Ibis, and skulls of Orang-utan and chimpanzee.

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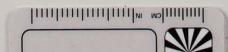
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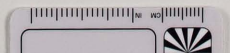
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